

# **APPENDIX 1**

## **ALL Measure Table**

### **INCLUDES:**

**Outcome Measures from *Strategic Plan***

**Program Activity Measures with Targets**

**Program Activity Measures: Indicators**

Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
<b>Goal 2: Safe and Clean Water - Ensure drinking water is safe. Restore and maintain oceans, watersheds, and their aquatic ecosystems to protect human health, support economic and recreational activities, and provide healthy habitat for fish, plants, and wildlife.</b>									
<b>Objective 1: Protect human health by reducing exposure to contaminants in drinking water (including protecting source waters), in fish and shellfish, and in recreational waters.</b>									
<b>Subobjective</b>									
2.1.1	T	<b>Water Safe to Drink:</b> Percentage of the population served by community water systems that receive drinking water that meets all applicable health-based drinking water standards through effective treatment and source water protection.	SDWIS	Region, State & Tribe	93.6%	93%	95%	Population	OGWDW
<b>Strategic Targets</b>									
A	T	Percentage of the population served by community water systems that receive drinking water that meets health-based standards with which systems need to comply as of December 2001.	SDWIS	Region, State & Tribe	93.6%	94%	95%	Population	OGWDW
B	T	Percentage of the population served by community water systems that receive drinking water that meets health-based standards with a compliance date of January 2002 or later. (Covered standards include: Stage 1 disinfection by-products/interim enhanced surface water treatment rule/long-term enhanced surface water treatment rule/arsenic).	SDWIS	Region, State & Tribe	Jan-04	75%	80%	Population	OGWDW
C	T	Percentage of community water systems that provide drinking water that meets health-based standards with which systems need to comply as of December 2001.	SDWIS	Region, State & Tribe	91.6%	94%	95%	Community Water Systems	OGWDW
D	T	Percentage of community water systems that provide drinking water that meet health-based standards with a compliance date of January 2002 or later. (Covered standards include: Stage 1 disinfection by-products/interim enhanced surface water treatment rule/long-term enhanced surface water treatment rule/arsenic)	SDWIS	Region, State & Tribe	Jan-04	75%	80%	Community Water Systems	OGWDW
E	T	Percentage of the population served by community water systems in Indian country that receive drinking water that meets all applicable health-based drinking water standards.	SDWIS	Region & Tribe	91.1%	90%	95%	Population	OGWDW
F	T	Percentage of source water areas for community water systems that achieve minimized risk to public health. ("Minimized risk" achieved by substantial implementation, as determined by the State, of source water protection actions in a source water protection strategy.)	SDWIS	Region, State & Tribe	5%	20%	50%	Source Water Areas	OGWDW

## Final National Water Program FY 05 - 08 Management System Matrix (All Measures)

Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
G	T	Number of households on Tribal lands lacking access to safe drinking water.	Indian Health Service	HQ	31,000	n / a	15,500 by year 2015	Households	OGWDW / AIEO
<b>Program Activities</b>									
<b>Drinking Water Standards Development</b>									
1	I	Promulgate final Total Coliform/Distribution System Rule.	n / a	HQ	n / a	n / a	Final	Rule	OGWDW
2	I	Conduct analysis to support determinations whether to regulate contaminants from Contaminated Consolidated List 2.	n / a	HQ	n / a	n / a	By 2006	Analysis	OGWDW
3	I	Each year, conduct analysis of currently regulated contaminants to support decisions to revise or not revise existing regulations within and outside the 6-year review cycle.	n / a	HQ	n / a	n / a	n / a	Analysis	OGWDW
<b>Implementation of Drinking Water Standards</b>									
4	I	Federal return on investment [cumulative dollar amount of assistance disbursements to systems divided by cumulative Federal outlays for projects] provided by the Drinking Water Safe Revolving Fund (DWSRF).	DWNIMS	Region & State	\$1.60	n / a	n / a	Ratio	OGWDW
5	T	Fund utilization rate [cumulative dollar amount of loan agreements divided by cumulative funds available for projects] for the DWSRF.	DWNIMS	Region & State	75%	80.4%	86%	Rate	OGWDW
6	I	Number of DWSRF projects that have initiated operations. (cumulative)	DWNIMS	Region & State	1,235	n / a	n / a	Projects	OGWDW
7	I	The percentage of DWSRF loan agreements made annually that will return Community Water Systems to compliance.	DWNIMS	Region & State	30%	n / a	n / a	Agreements	OGWDW
8	T	Each year, all States will be in compliance with requirement to conduct sanitary surveys at community water systems once every three years, as documented by file audits of a random selection of water systems.	SDWIS	Region & State	Requirement takes effect in December 2004	96%	100%	States	OGWDW
9	T	Each year, all Tribal water community systems will have undergone a sanitary survey within the past 3 years.	SDWIS	Region & Tribe	Requirement takes effect in December 2004	80%	100%	Tribal CWSs	OGWDW
<b>Source Water Protection Programs</b>									
10	I	Percentage of source water areas for community water systems that have source water protection strategies in place (cumulative).	Internal Tracking System	Region & State	Estimate of 5% of source water areas (cumulative)	n / a	n / a	SWAs	OGWDW

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11	I	Percentage of source water areas for community water systems that have implemented some aspects of source water protection strategies (cumulative).	Internal Tracking System	Region/State	TBD in 2004	n / a	n / a	SWAs / CWS	OGWDW
12	I	Number of Tribal water systems that have completed a source water assessment consistent with national guidelines.	WATERS	Region & Tribe	Requirement takes effect in December 2003	n / a	n / a	Tribal Water Systems	OGWDW
13	I	Percentage of community water systems with source waters classified as high, moderate, or low for risk susceptibility. (Classifications to be made starting in 2004)	Internal Tracking System	Region & State	xx xx xx	n / a	n / a	CWSs % High Risk % Moderate Risk % Low Risk	OGWDW
14	I	Percentage of community water systems for which delineated source water areas will be available in a GIS digitized format using agreed upon data management protocols.	WATERS	Region & State	TBD in 2004	n / a	n / a	Delineated SWAs	OGWDW
15	I	Each year, identify at the State level the most prevalent and threatening categories of existing/potential sources of contamination for surface and ground water for Community Water Systems.	Internal Tracking System	Region & State	n / a	n / a	n / a	Categories	OGWDW
16	T	Percentage of the 31 pesticides identified in 2002 as having a high leaching/persistence potential will be reassessed by the Office of Pesticide Programs and appropriate additional management controls (e.g. revised label restrictions, limited use in sensitive areas, additional monitoring) will be implemented. (NOTE: measure to be revised to reflect 2003 identification of additional pesticides.) Base of 31 pesticides.	n / a	HQ	77%	90%	100%	Pesticides Reassessed	OPPTS
17	T	Separately for each class of well, the percentage of Classes I, II, III, and V wells identified in violation that are addressed by the UIC program.	n / a	Region & State	Baseline in 2004	I - 95% II - 96% III - 96% V - 93%	I - 100% II - 100% III - 100% V - 100%	Wells in violation	OGWDW
18	T	Percentage of identified Class V Motor Vehicle Waste Disposal wells that are closed or permitted.	n / a	Region & State	Baseline in 2004	85%	100%	Class V Wells	OGWDW

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19	I	Percentage of ground water-based source water areas for Community Water Systems that have a Class V survey completed.	n / a	Region & State	Baseline in 2004	n / a	n / a	Survey	OGWDW
20	T	Percentage increase in the number of inspections conducted for Class II and Class V wells above a 2004 baseline.	n / a	Region & State	Baseline in 2004	II=.8% V=1.3%	II=10% V=10%	Inspections	OGWDW
<b>Clean Water Act and Safe Drinking Water Act Integration Measures</b>									
21	I	Identify waters used by community water systems as a source of drinking water for which States / Tribes, have wherever attainable, adopted water quality standards with public water supply as a designated use, or for which States / Tribes have adopted water quality standards that provide an equivalent level of human health protection. (Note: "An equivalent level of human health protection" refers to the MCL, or to the section 304(a) human health criterion water plus organism value.)	WATERS	HQ	n / a	Completion	2005 Completion	Standards	OGWDW/ OST
22	T	EPA will complete phase 1 of the partial recalculation of human health criteria using the new human health methodology.	n / a	HQ	n / a	Completion	2005 Completion	Criteria	OST
23	T	Each year, EPA will identify critical drinking water contaminants of concern in surface waters and issue three new or revised human health criteria under section 304(a) of the CWA.	Internal Tracking System	HQ	n / a	3	12	Contaminants / Criteria	OGWDW / OST
24	T	Percentage of surface waters that are used as a drinking water source by community water systems that have, wherever attainable, water quality standards with public water supply as a designated use or will have water quality standards that provide an equivalent level of human health protection. [Baseline TBD in 2005 based on analysis conducted under measure #21; target to be determined based on baseline.]	WATERS	Region & State	TBD in 2005	n / a	TBD in 2005	Surface Waters / Standards	OGWDW/ OST

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25	I	Percent of surface waters that are: 1) designated for public water supply use; and 2) classified by States as highly or moderately susceptible to contamination that are monitored annually for attainment with human health water quality standards for drinking water contaminants.	WATERS	Region & State	TBD in 2005	n / a	n / a	Surface Waters	OGWDW/ OWOW
26	I	Percent of surface waters that are: 1) designated by states as highly vulnerable to contamination; 2) designated for public water supply use; and 3) impaired due to non-attainment of human health water quality standards, that have a completed TMDL.	WATERS	Region & State	TBD in 2005	n / a	n / a	Surface Waters	OGWDW/ OWOW
27	I	Percent of waters that are: 1) designated by states as highly vulnerable to contamination; 2) designated for public water supply use; and 3) have a completed TMDL, that are attaining human health water quality standards for drinking water contaminants.	WATERS	Region & State	TBD in 2005	n / a	n / a	Waters	OGWDW/ OWOW

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<b>Subobjective</b>									
2.1.2	T	<b>Fish and Shellfish Safe to Eat.</b> The quality of water and sediments will be improved to allow increased consumption of safe fish and shellfish as measured by the strategic targets described below.	(See Strategic Targets Below)	Region & State	n/a	n / a	n / a	n/a	OST / OWOW
<b>Strategic Targets</b>									
H	T	Percentage of the water miles/acres identified by States or Tribes as having a fish consumption advisories in 2002 where increased consumption of safe fish is allowed. (485, 205 river miles, 11,277,276 lake acres)	National Listing of Fish and Wildlife Advisories	Region & State	0%	1%	3%	Miles / Acres	OST / OWOW
I	T	Percentage of the shellfish growing acres monitored by states that are approved or conditionally approved for use.	Shellfish Information Management System (SIMS)	Region & State	1995 Baseline = 77%	80%	85%	Shellfish Growing Acres	OST / OWOW
<b>Program Activities</b>									
28	T	Percentage of lake acres & rivers miles where fish tissue will be assessed to support waterbody-specific or regional consumption advisories, or a determination that no consumption advice is necessary. (Great Lakes measured separately; AK not included).	National Listing of Fish and Wildlife Advisories	HQ	34.5% 16%	TBD TBD	40% 20%	% Lake Acres % River Miles	OST
29	I	Percentage of States that monitor and assess fish tissue contamination based on national guidance.	Internal program tracking system	HQ	82%	n / a	n / a	States	OST
30	T	Number of tribal fish advisory programs that have adopted and applied the national fish advisory guidance to making fish advisory determinations for local waters. [565 Federally recognized Tribes and Alaskan Native Villages]	Internal program tracking system	Region & Tribe	3	4	10	Tribes	OST
31	I	Number of States and authorized Tribes that have adopted the new fish tissue criterion for mercury.	Internal program tracking system	Region, State & Tribe	0 0	n / a	n / a	States Tribes	OST
32	I	Number of States that are part of the Interstate Shellfish Sanitation Commission and participate in the national Shellfish Information Management System (SIMS).	SIMS	Region & State	0	n / a	n / a	States	OST

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<b>Subobjective</b>									
2.1.3	T	<b>Water Safe for Swimming.</b> Percentage of the stream miles and lake acres identified by States in 2000 as having water quality unsafe for swimming where water quality that is restored to allow swimming. (90,000 stream miles, 2.6 million lake acres)	State Section 305 (b) Reports	Region & State	n/a	2%	5%	Miles / Acres	OST / OWOW
<b>Strategic Targets</b>									
J	T	Number of waterborne disease outbreaks attributable to swimming in, or other recreational contact with, the ocean, rivers, lakes, or streams measured as a five year average.	EPA /ORD internal Waterborne Disease Outbreak database	Region & State	9	n / a	8	Outbreaks	OST
K	T	Percentage of days of the beach season that coastal and Great Lakes beaches monitored by State beach safety programs are open and safe for swimming.	National Health Protection Survey of Beaches	Region & State	94%	94%	96%	Days / Beach Season	OST
<b>Program Activities</b>									
33	T	Number of coastal and Great Lakes States and Territories that have adopted, for coastal recreational waters, water quality criteria for E.Coli and enterococci (cumulative).	Internal program tracking system	Region & State	11	25	35 (Statutory req: April '04)	States / Territories	OST
34	T	EPA will publish criteria for pathogens of concern for recreational waters.	n / a	HQ	n / a	n / a	Publish Criteria	Criteria	OST
35	T	Percentage of significant public beaches monitored and managed under the BEACH Act Program. [No BEACH Act implementation in 2002.]	PRAWN or National Health Protection Survey of Beaches	Region & State	0%	91%	100%	Significant Public Beaches	OST
36	T	Percentage of CSO communities with schedules in place to implement approved Long Term Control Plans (LCTPs). (Baseline of 772 Communities w/ CSOs)	PCS - CSO Report database	Region & State	2003 = 22%	41%	75%	CSOs communities w/ schedules in place	OWM
37	I	Number of States that have adopted the Voluntary Management Guidelines for On-site/Decentralized Wastewater Treatment Systems. (cumulative)	Internal Tracking System	Region & State	2	n / a	n / a	States	OWM



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<b>Objective 2: PROTECT WATER QUALITY - Protect the quality of rivers, lakes and streams on a watershed basis and protect coastal and ocean waters.</b>									
<b>Subobjective</b>									
2.2.1	T	<b>Protect and Improve Water Quality on a Watershed Basis</b> - Number of the Nation's watersheds where: water quality standards are met in at least 80% of the assessed water segments; and all assessed water segments maintain their quality and at least 20 percent of assessed water segments show improvement above conditions as of 2002. (2,262 watersheds nationwide)	State Section 305 (b) Reports	Region & State	- 453 - 0	- 500 - TBD	- 600 - 200	Watersheds: - Attaining Stds - Improved	OWOW
<b>Strategic Targets</b>									
L	T	Percentage of waterbodies identified in 2000 as not attaining standards where water quality standards are fully attained. (21,632 waterbodies; 255,408 miles and 6.8 million acres)	WATERS	Region & State	0%	2% (Note: interim goal of 5% by 2006)	25% by year 2012	Waterbodies	OWOW
M	T	Percentage of test sites where phosphorus levels are below levels of concern established by USGS or levels adopted by a state or authorized tribe in a water quality standard for major rivers; for urban streams; & for farmland streams.	USGS	HQ/USGS	50% 38% 25%	n / a	55% 38% 30%	Rivers Urban Streams Farmland Streams	OWOW
N	T	Number of monitoring stations in Tribal waters for which baseline data are available where water quality is improved (i.e., shows at least a 10% improvement for each of four key parameters: total nitrogen, total phosphorus, dissolved oxygen, and fecal coliforms.) (900 stations nationwide)	NWIS	Region & Tribe	0	35	90	Stations	AIEO
O	T	Number of households on tribal lands lacking access to basic sanitation.	Indian Health Service	Region & Tribe	71,000	62,750	35,000 by year 2015	Households	OWM / AIEO
<b>Program Activities</b>									
<b>Water Quality Standards</b>									
38	I	Number of States & authorized Tribes that have completed a review of water quality standards within three years of the previous triennial review under Section 303(c) of the CWA. (56 State/Territories, & 22 authorized Tribes)	Internal program tracking system	Region & State	55	n / a	n / a	States / Territories & Authorized Tribes	OST

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Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
39	T	Number of new or revised criteria documents for water pollutants published providing the scientific information necessary for State adoption or revision of a water quality standard protocols and methods for the pollutant, including needed implementation protocols and methods.	n/a	HQ	n / a	5	15	Criteria	OST
40	T	Number of States that have adopted into their water quality standards, and EPA has approved, nutrient criteria for fresh water (rivers/streams, lakes, and reservoirs) (Cumulative).	Internal program tracking system	Region & State	0	5	25	States/Territories	OST
41	T	Number of States that have adopted into their water quality programs for streams and small rivers, biological criteria designed to support determination of attainment of water quality standard use designations standards (Cumulative). [Note: biological criteria may include quantitative endpoints or narrative criteria with quantitative implementation procedures or translators]	Internal program tracking system	Region & State	15	17	45	States/Territories	OST
42	T	Number of Tribes that have water quality standards approved by EPA (Cumulative).	Internal program tracking system	Region & Tribe	23	33	33	Tribes	OST
43	T	Each year, percentage of State/Tribal water quality standards submissions that are approved/disapproved by EPA within 90 days.	Internal program tracking system	HQ & Regions	n/a	73%	75%	Standard Submissions	OST
<b>Monitoring</b>									
44	T	Each year, the number of States & Territories that have adopted and begun implementing a monitoring strategy [including a State approach to putting data into STORET] consistent with national guidance. (i.e, March 2003 guidance describing 10 key monitoring elements) (cumulative).	Internal Tracking System	Region & State	0	56	56	States/Territories	OWOW

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Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
45	T	Number of States, Interstate Agencies, and Territories that provide integrated assessments of the condition of their waters consistent with sections 305(b) and 303(d) of the Clean Water Act and EPA's integrated assessment guidance (cumulative) (56 State/Territories).	Internal Tracking System	Region & State	21	41	56	States & Territories	OWOW
46	T	Number of Tribes that currently receive EPA funding that have developed comprehensive monitoring strategies that serve all water quality management needs, and address all tribal waters, including all water body types and that provide their water quality data in a system accessible for storage in EPA's STORET.	Internal Tracking System	Region & Tribe	0 0	under development	90 45	Tribes with: - Comp Mont. Strats - STORET	OWOW
47	T	EPA reports results of a statistical survey of the condition of the Nation's water, conducted in cooperation with the States.	n / a	HQ	12	n / a	56	States/Territories contribute data	OWOW / ORD
<b>Watershed Planning, TMDLs, and Nonpoint Source</b>									
48	I	The number of watershed based plans (and water miles/acres covered), supported under State Nonpoint Source Management Programs since the beginning of FY 2002 have been developed and the number of watershed based plans, (and water miles/acres covered), where watershed based plans are being implemented.	GRTS & NPS Annual Reports	Region & State	0 0	n / a	n / a	Watershed plans (miles/acres): - have been dvlpd - being implmntd	OWOW
49	T	Number of watershed based plans (and water miles/acres covered), supported under State Nonpoint Source Management Programs since the beginning of FY 2002 that have been substantially implemented (cumulative).	GRTS	Region & State	n/a 0	44 TBD	50 5,000	- Plans implmntd - water miles/acres	OWOW
50	T	Number of national significant watersheds where a watershed approach to protecting and restoring water quality is being fostered using Targeted Watershed Grants (cumulative).	Internal Tracking System	HQ	2003 Program Start	60	100	Watersheds	OWOW
51	I	Percentage of TMDLs approved since the beginning of 2004 that were developed as part of a larger, watershed planning process that addressed restoration and protection of all waters within a watershed	Internal Tracking System	Region & State	n / a	n / a	n / a	TMDLs	OWOW

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52	T	Percentage of the TMDLs required for waters currently on the 303(d) list that are established or approved by EPA within 13 years of listing consistent with national policy. Annual targets will be based on state schedules or straight-line rates that ensure that the national policy is met.	WATERS	Region & State	n/a	76%	100%	TMDLs on FY 05 pace	OWOW
53	T	Number of Tribes that currently receive EPA funding in 2004 that have participated with States &/or EPA in development of measures (e.g., TMDLs or watershed-based plans) to restore and protect watersheds with impaired waters.	Internal Tracking System	Region & Tribe	TBD in 2004	24	20	Tribes	OWOW
54	I	Percentage of TMDL approvals occurring since the beginning of FY 04 for which EPA took approval action within 30 days of submission.	Internal Tracking System	Region & HQ	TBD in 2004	n / a	n / a	TMDLs	OWOW
55	T	Number of TMDLs approved by EPA or watershed plans to restore nutrient-impaired waters on a state impaired-waters list that contain provisions to enable trading. Provisions could include a range of practicable WLA/LA adjustments that would achieve the TMDL or incorporation of a state-approved trading framework that may be used to implement the TMDL.	WATERS	Region & State	7	25	200	TMDLs/Watershed Plans	OWOW
56	I	Number of waterbodies identified by States in 2000 as being impaired by nonpoint sources or by both point & nonpoint sources that are fully restored (cumulative). [Estimated 5,967 waterbodies impaired significantly by nonpoint source]	Internal Tracking System	Region & State	5,967	n / a	n / a	Waterbodies	OWOW
57	I	Annual reduction in lbs/tons of nitrogen, phosphorus, and sediment from nonpoint sources to waterbodies	GRTS	Region & State	0 0 0	n / a	n / a	Nitrogen (lbs / K) Phosphorus (lbs / K) Sediment (tons / K)	OWOW
58	I	Number and dollar value of projects financed with Clean Water SRF loans to prevent polluted runoff (cumulative).	NIMS	Region & State	668 \$1.6	n / a	n/a	Projects Value / \$B	OWM

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<b>Permitting and National Regulations</b>									
59	T	Percentage of all NPDES permits that are considered current and, beginning in 2005, the percentage of high priority permits that are also current; permits for facilities in Indian Country are to meet the same standard/schedule. [targets to be reevaluated once universe of priority permits is defined in cooperation with States/Tribes]	PCS	Region, State & Tribes	82.4% n/a n/a n/a	87% 95% 88% 95%	90% 95% 90% 95%	All permits State Priority permits State All permits Ind Cntry Priority permits Ind Cntry	OWM
60	T	Number of States that have updated regulations and/or statutes where necessary to reflect new CAFO requirements; number of States that have issued Statewide general permits, or otherwise substantially implemented the permit program, consistent with these new requirements (cumulative).	State compendium / PCS	Region & State	2003 = 6 4	35 37	44 49	Authorized States States	OWM
61	T	Percentage of States/Regions that have issued NPDES general permits requiring storm water management programs for Phase II municipalities (MS4S) (estimated annual load reduction of 4.1 billion pounds of pollutants). (Note: assumes continued availability of general permits)	PCS	Region or State	0	93%	100%	Permitting Authority	OWM
62	T	Percentage of States/Regions that have issued NPDES general permits requiring storm water pollution prevention plans for Phase II construction (estimated annual load reduction of 17 billion pounds of pollutants). (Note: assumes continued availability of general permits)	PCS	Region & State	0	98%	100%	Permitting Authority	OWM
63	I	Percentage of Significant Industrial Users (SIUs) in POTWs with Pretreatment Programs and percentage of known Categorical Industrial Users (CIUs) in non-pretreatment POTWs that have control mechanisms in place that implement applicable pretreatment requirements.	SIUs = PCS CIUs = Internal Tracking System	Region & State	95% xx%	n / a	n / a	SIUs CIUs	OWM
64	T	Number of pounds of pollution loadings to waterbodies from industrial dischargers reduced (2004-2008) as a result of national industrial water pollution control regulations.	Rulemaking record for effluent guidelines.	HQ	0.6	1.0	2.4	Lbs / Billion	OST
65	I	Estimated annual reduction in pounds of pollutants discharged to waters as a result of NPDES permits for storm water, POTWs, CAFOs, CSOs, and industrial discharges. (annual reduction in 2003)	Internal Tracking System	HQ	109	n / a	n / a	Lbs / Billion	OWM

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66	I	Using the planning process called for in section 304(m) of the Clean Water Act, identify any industrial categories where discharges to waterbodies or releases to Publicly Owned Treatment Works (POTWs) pose a significant risk to water quality and determine whether to develop new national pollution control regulations, revise existing regulations, or develop other control tools.	n / a	HQ	n / a	n / a	By 2006	Industrial Categories	OST
67	I	Number of dischargers with permits providing for trading between the discharger and other water pollution sources and the number of dischargers that carried out trades.	Internal Tracking System	Region & State	74 51	n / a	n / a	- Dischargers - Dischargers/Trades	OWM
68	I	Number of watersheds in which a watershed permit(s) has been issued and the number of States issuing NPDES permits using a rotating basin process.	Internal Tracking System	Region & State	xx xx	n / a	n / a	- Watersheds - States	OWM
69	I	Percentage of NPDES program authorities where a comprehensive assessment of NPDES program integrity has been conducted (beginning in FY 04) and the percentage of assessed programs that are complying with implementation schedules for all those follow-up actions for which a schedule has been established.	Internal Tracking System	Region & State	n / a n / a	n / a	n / a	Program Authorities - % Assessed - % Complying	OWM
<b>State Revolving Fund</b>									
70	T	Fund utilization rate [cumulative loan agreement dollars to the cumulative funds available for projects] for the CWSRF.	NIMS	Region & State	91%	90%	94%	Rate	OWM
71	I	Return on Federal investment [cumulative dollar amount of assistance disbursements to projects divided by cumulative Federal outlays for projects] for the CWSRF.	NIMS	Region & State	\$1.90	n / a	n / a	Ratio	OWM
72	T	Number of States using integrated planning and priority systems to make CWSRF funding decisions (cumulative).	Internal Tracking System	Region & State	19	29	28	States	OWM

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<b>Subobjective</b>									
2.2.2	T	<b>Improve Coastal and Ocean Waters.</b> Score for overall aquatic system health of coastal waters nationally, and in each coastal region, on the “good/fair/poor” scale of the National Coastal Condition Report (a 5 point scale.)	NCCR	HQ (ORD)	2.4	2.5	2.6	Scale	OWOW / ORD
<b>Strategic Targets</b>									
P	T	Score for water clarity and dissolved oxygen in coastal waters at the national levels reported in the 2002 National Coastal Condition Report. (a 5 point scale)	NCCR	HQ (ORD)	4.3 4.5	4.3 4.5	4.3 4.5	Water Clarity Dissolved Oxygen	OWOW/ ORD
Q	T	Score for coastal wetlands loss; contamination of sediments in coastal waters; benthic quality; & eutrophic condition reported in the National Coastal Condition Report. (5 point scale)	NCCR	HQ (ORD)	1.4 1.3 1.4 1.7	1.5 1.4 1.5 1.8	1.6 1.5 1.6 1.9	Wetland Loss Contamin Sed Benthic Quality Eutrophic Condition	OWOW / ORD
R	T	Rate of increase in the number of invasions by non-native invertebrate and algae species of marine and estuarine waters.	N / A	HQ	1%	n / a	Reduce rate of increase by year 2013	Invasions	OWOW
IV-C	T	Score for overall aquatic system health of the 28 estuaries that are part of the National Estuary Program (NEP), as measured using the National Coastal Condition Report and NEP specific indicators starting in 2006.	NCCR / NEP Reports	HQ (ORD)	TBD 05	n / a	Improve compared to 2006	Scale	OWOW
IV-D	T	Number of additional acres of habitat within the 28 estuaries that are part of the National Estuary Program (NEP) that are protected or restored. (cumulative)	NEP Reports	Regions and NEPs	0	25,000	250,000	Acres	OWOW

## Final National Water Program FY 05 - 08 Management System Matrix (All Measures)

Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
<b>Program Activities</b>									
73	T	Publish a revised national Coastal Condition Report describing the quality of the Nation's ocean and coastal waters.	n / a	HQ	n / a	1 (in 2004)	1 (in 2006)	Report	ORD / OWOW
74	I	Number of dredged material management plans that are in place for major ports and harbors developed by COE-Led stakeholder process and the percentage of dredged material from coastal waters that is managed in a beneficial manner. (250 major ports & harbors)	Internal Tracking System	Corps of Engineers	15	n / a	n / a	- Mgmnt Plans - Managed Material	OWOW
75	I	Number of ocean disposal sites with approved site management and monitoring plans that are monitored in the reporting year, including those monitored by EPA's Ocean Survey Vessel, Peter W. Anderson.	Internal Tracking System	HQ/Regions	81 42	n / a	n / a	- Sites w/ Mgmnt Plans - Sites Monitored	OWOW
76	T	Each year, the National Marine Debris Monitoring Network will be 100% operational.	Ocean Conservancy	HQ (Ocean Conservancy Database)	70%	100%	100%	Network Operational	OWOW
77	T	Mandatory requirements to exchange ballast water will be developed to reduce the discharges of invasive species in U.S. coastal waters.	n / a	HQ	n / a	Completed 2004	n / a	Requirement	OWOW / Coast Guard
78	T	Develop standards for the discharge of ballast water, including control of organisms.	n / a	HQ	n / a	n / a	Completed 2008	Standards	OWOW
79	T	Work with other Nations to secure an international agreement on a global treaty that establishes rigorous performance standards designed to prevent future introductions of non-native aquatic species to U.S. waters from the discharge of ships' ballast water.	n / a	HQ	n / a	n / a	Completed 2006	Agreement	OIA
80	T	Propose standards for black water and gray water for cruise ships operating in Alaskan waters.	n / a	HQ	n / a	n / a	Completed 2006	Proposed Strds	OWOW



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Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
81	I	Number of coastal States in which State air and water officials have received training in assessment and management of air/water interface issues (cumulative). (There are 31 Coastal States)	Internal Tracking System	HQ	17	n / a	n / a	States	OWOW
82	I	Number of coastal States in which there is at least one mercury deposition monitoring station (cumulative). (There are 31 Coastal States)	Internal Tracking System	HQ	23	n / a	n / a	States	OWOW
IV-NEP-1	I	Number of NEP priority actions in CCMPs that have been initiated and the number that have been completed.	NEP Reports	Region & NEPs	Baseline determined by Dec 2003	n / a	n / a	# Action Initiated # Completed	OWOW
IV-NEP-2	T	Publish an NEP Coastal Condition Report describing the quality of the coastal waters in the 28 estuaries in the NEP using the National Coastal Conditions report indicators as well as NEP specific indicators that can be aggregated to a regional and national level.	NCCR/Other Assessments	HQ	n / a	HQ Target / TBD	By 2006	Report	OWOW
IV-NEP-3	I	Return on Federal investment [cumulative dollar amount of resource (cash or in-kind) leveraged by Section 320 funds for all NEPs (for LIS, Sections 119 & 320)].	Internal Tracking System	Region & NEPs	200,000,000	n / a	n / a	Dollars	OWOW
IV-NEP-4	I	NEPs have indicators in place to track key environmental and other trends in their estuary based on CCMP priorities and emerging issues, including invasive species where appropriate, and to enable each NEP to periodically report on status and trends. {Base: 28 NEPs)	Internal Tracking System	Regions and NEPs	17	n / a	n / a	Indicators in place	OWOW

Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
<b>Objective 3 - Science/Research. Provide and apply a sound scientific foundation to EPA's goal of clean and safe water by conducting leading-edge research and developing a better understanding and characterization of environmental outcomes under Goal 2.</b>									
<b>Subobjective</b>									
2.3.1	I	<b>Apply the Best Available Science.</b> By 2008, apply the best available science (i.e., tools, technologies and scientific information) to support Agency regulations and decision making for current and future environmental and human health hazards related to reducing exposure to contaminants in drinking water, fish and shellfish, and recreational waters and the protection of aquatic ecosystems.	n / a	HQ	n / a	n / a	n / a	n / a	OST
<b>Program Activities</b>									
83	T	Develop improved methods to assess and value ecological and recreation benefits of improvements in water quality.	n / a	HQ	n / a	HQ Target / TBD	By 2008	Methods	IO
84	T	EPA approved new or revised analytical methods will be available for indicators of bacterial pathogens, and for selected protozoan pathogens of concern for people swimming at beaches and drinking waters.	n / a	HQ	n / a	HQ Target / TBD	By 2008	Methods	OST
85	T	Number of EPA-approved new or improved analytical methods that will be available for contaminants controlled by the NPDES permit, pretreatment, and drinking water programs.	n / a	HQ	n / a	HQ Target / TBD	12	Methods	OST
<b>Subobjective</b>									
2.3.2	T	<b>Research.</b> By 2008, conduct leading-edge, sound scientific research to support the protection of human health through the reduction of human exposure to contaminants in drinking water, in fish and shellfish, and in recreational waters and to support the protection of aquatic ecosystems, specifically, the quality of rivers, lakes and streams and coastal and ocean waters.	n / a	HQ	n / a	n / a	n / a	n / a	ORD

Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
<b>Goal 4: Healthy Communities, and Ecosystems - Protect, sustain or restore the health of people, communities, and ecosystems using integrated and comprehensive approaches and partnerships.</b>									
<b>Objective 2 - Community Health. Sustain, clean up, and restore communities and the ecological systems that support them.</b>									
<b>Subobjective</b>									
4.2.4	I	US-Mexico Border Region; sustain and restore community health, and preserve the ecological systems that support them.	(See Strategic Targets Below)	Region & State	n / a	n / a	n / a	n / a	OWM
<b>Strategic Targets</b>									
IV-A	T	Of the water quality standards being exceeded in significant shared and transboundary surface waters in the year 2002, the percentage of that are achieved.	segments in both Mexico and US with significant trans- boundary and shared waters	Region & State	TBD 05	n / a	By 2012, >50%	WQ Standards	OWM
IV-B	T	Number of people in the Mexico border area provided with adequate water and wastewater sanitation systems through the Border Environmental Infrastructure Fund (cumulative).	Quarterly reports by the Border Environment Cooperation Commission (BECC) and the North American Development Bank (NADBank.)	HQ	790	1,500	n / a	People (K)	OWM

Code	Type	Outcomes / Activity Measures	Data Source	Who Reports	2002 Baseline	National 05 Draft Target	National 08 Target	Unit	Managing Office
<b>Objective 3 - Ecosystems. Protect, sustain, and restore the health of natural habitats and ecosystems.</b>									
<b>Subobjective</b>									
4.3.1	I	<b>Ecosystem Scale Protection and Restoration.</b> Facilitate the ecosystem scale protection and restoration of natural areas.	(See Strategic Targets Below)	Region & State	n/a	n / a	n / a	n / a	OWOW
<b>Strategic Targets</b>									
NEP		Strategic Targets incorporated under Coastal Subobjective Implementation Plans (2.2.2)							
<b>Program Activities</b>									
NEP		Program Activity Measures incorporated under Coastal Subobjective Implementation Plans (2.2.2)							
<b>Subobjective</b>									
4.3.2	T	<b>Wetlands.</b> Net gain/loss in number of acres of wetlands		Region & State	(58,000)	100,000	400,000	Acres	OWOW
<b>Strategic Targets</b>									
IV - E	T	Net gain/loss of wetlands in the Clean Water Act Section 404 regulatory program annually beginning in 04.	COE database	HQ & COE/Regions	n/a	No net loss	No net loss	Acres	OWOW / COE
IV - F	T	Net gain/loss in wetland function based on quantifying functions gained and lost through mitigation for authorized wetlands impacts annually beginning in 2006.	COE database	HQ & COE/Regions	n/a	n / a	Starting in 2006	Function	OWOW / COE
<b>Program Activities</b>									
IV-WD-1	I	Number of States that have achieved overall net gains of wetlands by building capacities in wetland monitoring, regulation, restoration, water quality standards, mitigation compliance, and partnership building.	State reporting via grant application	Region & State	0	n / a	n / a	States	OWOW
IV-WD-2	I	Number of watershed-based wetlands and stream corridor projects (combined 5-Star and non-5-Star projects) for which EPA has provided / contributed significant financial and technical assistance. [cumulative projects]	Internal Tracking System	Region & State	419	n / a	n / a	Projects	OWOW

## Final National Water Program FY 05 - 08 Management System Matrix (All Measures)

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IV-WD-3	T	Number of Tribes that have participated in watershed-based wetlands and stream corridor projects for which EPA has provided significant financial assistance (including 104(b)(3) Wetland Program and Five Star restoration program &/or technical assistance (cumulative) (565 Federally recognized Tribes).	Internal Tracking System	Region & Tribe	53	58	170	Tribes	OWOW
IV-WD-4	I	Number of major projects that have been completed in States and Tribes that significantly improve the effectiveness of compensatory mitigation. [cumulative]	Internal Tracking System	Region, State, & Tribe	xx	n / a	n / a	Projects	OWOW
IV-WD-5	T	Number of States where wetland condition has improved as defined through biological metrics and assessments.	Internal Tracking System	Region & State	0	5	5	States	OWOW

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<b>Subobjective</b>									
4.3.3	T	<b>Great Lakes</b> Score for overall ecosystem health of the Great Lakes. (40 point scale)	Internal Tracking System	GLNPO	20	21	22	Scale	GLNPO
<b>Strategic Targets</b>									
IV-G	T	Average percentage concentrations of PCBs in whole lake trout and walleye samples. Average concentrations from 2002 were: Lake Superior - .9 ug/g Lake Michigan - 1.6 ug/g Lake Huron - .8 ug/g Lake Erie - 1.8 ug/g Lake Ontario - 1.2 ug/g	GLNPO Fish Monitoring Program	GLNPO	see avg conc in Strategic Target	5% annual decline	25% decline by 2007	Concentrations	GLNPO
IV-H	T	Average percentage concentrations of toxic chemicals in the air in the Great Lakes basin. Average concentrations from 2002 were: Lake Superior - 60 pg/m2 Lake Michigan - 87 pg/m2 Lake Huron - 19 pg/m2 Lake Erie - 183 pg/m2 Lake Ontario - 36 pg/m2	IADN	GLNPO	see avg conc in Strategic Target	7% annual decline	30% decline	Concentrations	GLNPO
IV-I	T	Number of areas of Concern within the Great Lakes basin restored or delisted.	GLNPO	GLNPO	0	3	By 2010; 10	AOCs	GLNPO
IV-J	T	Number of cubic yards of contaminated sediment in the Great Lakes remediated. (2.1 as of 2001; cumulative from 1997)	GLNPO Sediment Remediation Report	GLNPO	2.1	2.9	3.3	Cubic Yards / M	GLNPO
<b>Program Activities</b>									
IV-GL-1	T	Percentage of all NPDES permitted discharges to the Lakes or major tributaries that have permit limits that reflect the Guidance's water quality standards, where applicable.	Great Lakes Strategy Tracking System	EPA Region 5, 3, and 2 Water Divisions	TBD	60%	100%	Permits	GLNPO
IV-GL-2	T	Each year, complete three sediment remedial actions. [US partners have completed about 3 per year since tracking since 1997]	GLNPO Sediment Remediation Report	GLNPO	3	3	3	Remedial Actions	GLNPO
IV-GL-3	T	Percentage of all CSO permits in the Great Lakes basin that are consistent with the national CSO Policy.	Internal Tracking System	EPA Region 5, 3, and 2 Water Divisions	83%	88%	100%	CSO Permits	GLNPO

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IV-GL-4	T	All Great Lakes States adopt bacteria criteria at least as protective as USEPA's Ambient Water Quality Criteria for Bacteria. (8 States)	Internal Tracking System	EPA Region 5, 3, and 2 Water Divisions	3	5	8	States	GLNPO
IV-GL-5	T	Percentage of high priority Great Lakes beaches where States and local agencies have put into place water quality monitoring and public notification programs that comply with the USEPA National Beaches Guidance.	Internal Tracking System	EPA Region 5, 3, and 2 Water Divisions	TBD	95%	95%	Programs	GLNPO

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<b>Subobjective</b>									
4.3.4	T	<b>Chesapeake Bay.</b> Acreage of submerged aquatic vegetation in the Chesapeake Bay. (cumulative)	CBPO	CBPO	85,252	91,000	120,000	Acres	CBPO
<b>Strategic Targets</b>									
IV-K	T	Reduction in number of pounds of nitrogen entering the Chesapeake Bay each year, from 1985 levels.	CBPO	CBPO	51	74	94	M Lbs / yr	CBPO
IV-L	T	Reduction in number of pounds phosphorus entering the Chesapeake Bay each year, from 1985 levels.	CBPO	CBPO	8.0	8.7	9.7	M Lbs / yr	CBPO
IV-M	T	Reduction in number of <b>tons of</b> sediment entering the Chesapeake Bay each year, from 1985 levels.	CBPO	CBPO	0.8	1.06	1.37	M Tons / yr	CBPO
<b>Program Activities</b>									
IV-CB-1	T	Percentage of wastewater flow to the Chesapeake Bay treated by Biological Nutrient Removal (BNR). (cumulative)	CBPO	CBPO	48%	60%	69%	Flow	CBPO
IV-CB-2	T	Miles of streambank and shoreline restored with riparian forest buffers. (cumulative)	CBPO	CBPO	1,298	4,000	7,000	Miles	CBPO



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<b>Subobjective</b>									
4.3.5	T	<b>Gulf of Mexico.</b> Prevent water pollution and protect aquatic species in order to improve the health of the Gulf of Mexico	GMPO	HQ (ORD)	n / a	n / a	n/a	n / a	GMPO / ORD
<b>Strategic Targets</b>									
IV-N	T	Score for overall aquatic system health of coastal waters of the Gulf of Mexico on the "good/fair/poor" scale of the National Coastal Condition Report. (5 point scale)	National Coastal Conditions Report	ORD/ GMPO/ OWOW	1.9	2.0	2.1	Scale	GMPO
IV-O	T	Size of the hypoxic zone in the Gulf of Mexico, as measured by the five year running average of the size of the zone.	HQ	HQ	14,128	< 14,128	By 2015, 5,000	Size / km2	GMPO/ OWOW
<b>Program Activities</b>									
IV-GM-1	T	Percentage of the impaired segments in the 12 priority coastal areas where water and habitat quality is restored to levels that meet state water quality standards. (Base: 354 segments impaired)	GMPO	GMPO	354	28	20%	Segments	GMPO
IV-GM-2	T	Number of additional acres important coastal and marine habitats that are restored, enhanced, or protected, above improvements accomplished through 2003. (USGS 2000 baseline for all Gulf of Mexico coastal wetland habitats - 3,769,370 acres)	GMPO	GMPO	0	11,000	20,000	Habitat/acres	GMPO
IV-GM-3	T	Implement integrated bi-national (U.S. and Mexican Border States) early-warning system to support State and coastal community efforts to manage harmful algal blooms (HABs).	GMPO	GMPO	n / a	n / a	Begin 2006	Systems	GMPO
IV-GM-4	T	Reduce the rate of shellfish-borne <i>Vibrio vulnificus</i> illnesses caused by consumption of commercially-harvested raw or undercooked oysters from the average illness rate for the years 1995-1999.	FDA	GMPO	1995-1999 average rate equals .303/million	n/a	By 2007, .121/million	Rate	GMPO
IV-GM-5	T	Establish a Lower Mississippi River Sub Basin Committee (as called for in the Hypoxia Action Plan), select a project watershed in each of the states in the Lower MS River Basin, and implement actions in selected watersheds within the Lower Mississippi River Basin to reduce nitrogen loadings to the Mississippi River.	GMPO	GMPO	n / a	By 2006, establish Committee	6 xx	Select Project Watersheds Implement Key Actions	GMPO